



**NSAI**

# ANNUAL REPORT 2020

NSAI TECHNICAL COMMITTEE - NSAI/TC 003

CONCRETE STANDARDS CONSULTATIVE  
COMMITTEE

## Contents

1	Chairman's Statement .....	3
2	Introduction .....	3
3	Scope of TC .....	3
4	Structure and Membership.....	4
4.1	Structure .....	4
4.2	Members .....	4
5	Summary of 2020 Activities .....	5
5.1	National .....	5
5.1.1	Meetings .....	5
5.1.2	National Work.....	5
5.2	International.....	6
5.2.1	Meetings .....	6
5.2.2	International Work .....	6
5.2.3	International Voting Results .....	6
6	Irish Publications/Reviews .....	8
6.1	Publications .....	8
6.2	Reviews .....	8
7	Work programme for 2021 onwards .....	8

## 1 Chairman's Statement

The CSCC monitors and mirrors the work of CEN technical committees related to concrete and associated products. It is within the remit of CSCC to contribute to the development and review of CEN standards and to produce national standards and guidance documents for use in Ireland. International and national standards are continually being revised and published to reflect the advances in technology and experience of concrete, constituent materials, products and processes. The CSCC strives to ensure that it is central to the development of international standards and to produce national standards that are suitable for implementation in Ireland.

The CSCC is set for an active time ahead. Concurrent to the work schedule, revision of the structural Eurocodes is nearing completion, which will then see revisions to many of the national documents under the committee's remit.

I would like to thank all members and delegates for their work on behalf of the Committee and acknowledge the support received from the NSAI.

Brian O'Rourke

Chairman

## 2 Introduction

Concrete and its related products are some of the most widely used materials in the construction of Ireland's built environment due in part to their versatility, mechanical properties and low maintenance requirements. Concrete is a material which is of significant importance to the Irish construction industry and economy. Its use in the construction industry also benefits from the development and maintenance of National and International concrete related standards. Some of the main benefits of standardisation in respect to concrete and its related products include:



The industry currently has 4 experts involved in international work

- The provision of guidance on the design and execution of concrete structures ensuring a minimum level of safety and reliability are achieved; and,
- The removal of technical barriers to trade, allowing an open market throughout Europe, (i.e. CE marking), and providing Irish manufacturers and companies access to larger markets into which they can sell their products and services.

The Concrete Standards Consultative Committee (CSCC) provides a representative and strategic forum for the concrete industry in Ireland through which participation in European technical committees concerned with standards relating to concrete and related products for structural and other uses is co-ordinated.

## 3 Scope of TC

The CSCC (NSAI/TC 003) is responsible for monitoring (mirroring) the work of a number of CEN technical committees (TCs) associated with concrete and its related products. The CSCC is also responsible for developing and updating National documents, predominantly Standard Recommendations and National Annexes providing guidance on the design, product, testing and execution standards and codes published by the respective CEN TCs which the CSCC mirror.

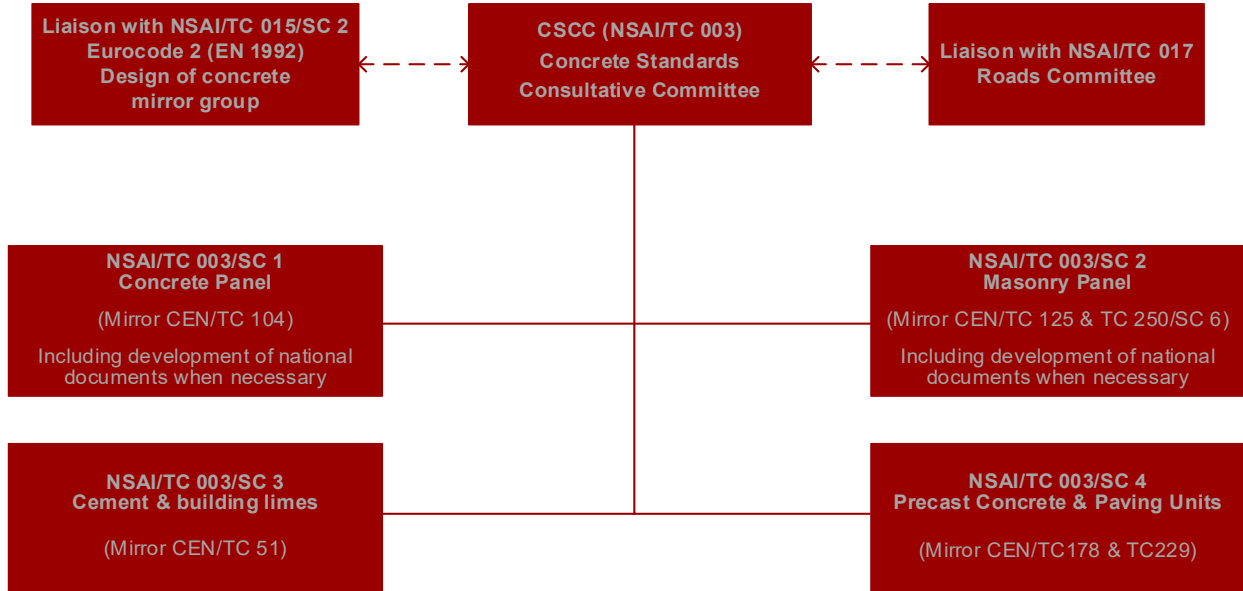
The committee and sub-committees mirror the following international committees:

Committee Name	Committee Title
<b>CEN/TC 104</b>	Concrete and related products
<b>CEN/TC 104/SC 1</b>	Concrete - Specification, performance, production and conformity
<b>CEN/TC 104/SC 1/WG 1</b>	Exposure Resistance Classes (RC)
<b>CEN/TC 104/WG 15</b>	Ground granulated blast furnace slag
<b>CEN/TC 51</b>	Cement & Building Lime
<b>CEN/TC 125</b>	Masonry
<b>CEN/TC 178</b>	Paving units and kerbs
<b>CEN/TC 229</b>	Precast concrete products
<b>CEN/TC 250/SC 6</b>	Eurocode 6 – Design of Masonry Structures

## 4 Structure and Membership

### 4.1 Structure

The Figure below illustrates the structure of the Committee:



### 4.2 Members

The members of the CSCC in 2020 are listed below:

Organisation	Role
<b>Cork Institute of Technology</b>	NSAI/TC 003 Committee Chair
<b>Irish Cement</b>	National committee member – SC 3 Chair
<b>Private Consultant</b>	National committee member
<b>Infrastruct</b>	National committee member
<b>Roadstone</b>	National committee member
<b>Private Consultant</b>	National committee member
<b>DHLGH</b>	National committee member
<b>Evolution – (NSAI Certification)</b>	National committee member
<b>Kilsaran</b>	National committee member
<b>Roadstone</b>	National committee member – SC 2 Liaison
<b>TUD</b>	National committee member
<b>IBEC</b>	National committee member
<b>Private Consultant</b>	National committee member
<b>Kilsaran</b>	National committee member
<b>ICF</b>	National committee member
<b>Ecocem</b>	National committee member
<b>ICF</b>	National committee member
<b>Banagher Precast Concrete</b>	National committee member – NSAI/TC 15/SC 2 Liaison
<b>NSAI (SBE - Certification)</b>	National committee member
<b>Homebond</b>	National committee member
<b>Trinity College Dublin</b>	National committee member
<b>DHLGH</b>	National committee member

## 5 Summary of 2020 Activities

### 5.1 National

The main activity saw the restructure of the CSCC taking place in 2020 with the re-establishment or founding of the sub-committees as set out in the table below and in the structure of the committee in section 4.1.

Subcommittee	Name	CEN TC being mirrored
<b>SC 1</b>	Concrete Panel	CEN/TC 104 its SC 1 & SC 1/WG 1
<b>SC 2</b>	Masonry Panel	CEN/TC 125 & CEN TC/250/SC 6
<b>SC 3</b>	Cement & building lime	CEN/TC 51
<b>SC 4</b>	Precast & Paving units	CEN/TC 229 & TC 178

This restructure was the result of an extensive review of the CSCC in 2018 and saw the development of a proposal involving the establishment of a subcommittee structure which would allow for a more focused monitoring of the CEN technical committees being mirrored by the CSCC. The new structure was approved in Q4 of 2019 with implementation taking place during 2020.

#### 5.1.1 Meetings

Members attended the following CSCC meetings in person and on-line (due to Covid-19 restrictions) in 2020:

Meeting	Date	Location
1	5 <sup>th</sup> March 2020	NSAI
2	3 <sup>rd</sup> December 2020	On-line

The sub-committees of the CSCC also met during 2020.

The Masonry Panel met frequently under the direction of a new Chairman, Mr. Eddie Phelan to discuss the changes to Eurocode 6 and to initiate a review of SR 325.

The Concrete Panel held a joint meeting with the NSAI/TC 15/SC 2 – Eurocode 2 group to discuss the developments in respect to the move from the Deemed to Satisfy (DtS) rules to an Exposure resistance class (ERC) approach for the durability of concrete.

The new SC 3 on cement and building lime also had its inaugural meeting in 2020.

#### 5.1.2 National Work

The work of the CSCC and its subcommittees in 2020 was predominantly focused on monitoring the development of international documents such as the revision to *EN 206 - Concrete - Specification, performance, production and conformity* and commenting on the enquiry draft of prEN 1996-1-1 - Eurocode 6.

The Concrete Panel (NSAI/TC 003/SC 1) has taken on the role of monitoring the development of EN 206 as any changes in this standard will have implications on the concrete industry in Ireland. As the revision of EN 206 progresses slowly towards CEN enquiry, the Concrete Panel and the CSCC will need to determine the extent of the revision required to the Irish National Annex to EN 206 as the change in the approach to durability of concrete as mentioned in 5.1.1 above will be implemented in the revised EN 206 standard.

Overall responsibility of any National documents still remains with the CSCC. Development of such documents would be developed by the CSCC or ad-hoc working groups within the new subcommittees including liaisons with the other CSCC subcommittees and other NSAI Technical Committees, most notably the NSAI/TC 15 – Eurocodes committee and others, where considered appropriate.

## 5.2 International

### 5.2.1 Meetings

Due to Covid-19 restrictions all International meetings moved into the virtual arena in March 2020. Committee members attended the following international meetings in 2020:

Committee name	Location	Date
<b>CEN/TC 104/SC 1/WG 1 - EXPOSURE RESISTANCE CLASSES (RC)</b>	On-Line	June 2020
<b>CEN/TC 104/SC 1 - CONCRETE - SPECIFICATION, PERFORMANCE, PRODUCTION AND CONFORMITY</b>	On-Line	July 2020
<b>CEN/TC 104 - CONCRETE AND RELATED PRODUCTS</b>	On-Line	July 2020
<b>CEN/TC 104/SC 1/WG 1 - EXPOSURE RESISTANCE CLASSES (RC)</b>	On-Line	October 2020
<b>CEN/TC 250/SC 6/WG 1 – EUROCODE 6</b>	On-Line	October 2020

There were no meetings of either CEN/TC 51 or CEN/TC 125 in 2020 which Irish representatives typically attend.

### 5.2.2 International Work

As stated in section 5.1.2, the work at international level which was of most importance to the CSCC in 2020 was the revisions to EN206 – *Concrete - Specification, performance, production and conformity* as well as:

- Eurocode 2 (EN 1992) – Design of concrete structure suite of standards – principally EN1992-1-1; and,
- Reviewing the enquiry draft of Eurocode 6 (prEN 1996-1-1) – Design of masonry structures.

There were also many concrete and masonry testing standards confirmed in 2020.

The CEN enquiry draft of a new EN 197-5 dealing with ternary cements was approved during 2020.

Work of the Masonry products committee (CEN/TC 125) was limited in 2020, with work in the precast concrete committee (CEN/TC 229) stalled due to ongoing issues with harmonisation of standards in line with the Construction Products regulation (CPR).

### 5.2.3 International Voting Results

The following CEN ballots were approved by CSCC members during 2020.

Reference	Result	Closed on	Committee
<b>Decision 13-2019 - NWI for drafting non-harmonized Standard</b>	Approved	20/01/2020	CEN/TC 51
<b>Decision 14-2019 - NWI to amend EN 16908</b>	Approved	16/02/2020	CEN/TC 51
<b>Decision 16-2019 - NPWI for the revision of EN 196-2</b>	Approved	16/02/2020	CEN/TC 51
<b>Decision 17-2019 - NPWI for the revision of EN 196-10</b>	Approved	16/02/2020	CEN/TC 51
<b>Request from DSTU to participate on CEN/TC 125 - N 1510</b>	Approved	14/03/2020	CEN/TC 125
<b>Liaison between CEN/TC 250/SC 6 and CEN/TC 250/WG 2</b>	Approved	18/03/2020	CEN/TC 250/SC 6
<b>prEN 1991-1-6 revised for Formal Vote</b>	Approved	20/05/2020	CEN/TC 250/SC 6
<b>EN 206:2013+A1:2016/prA2:2020</b>	Approved	26/05/2020	CEN/TC 104
<b>Decision 01-2020 - reappointment of Convenors of Working Gro</b>	Approved	10/06/2020	CEN/TC 51
<b>Decision 02-2020 - Participation of DSTU – Ukraine</b>	Approved	05/07/2020	CEN/TC 51
<b>EN 15743:2010+A1:2015</b>	Confirmed	24/08/2020	CEN/TC 51
<b>EN 196-7:2007</b>	Confirmed	24/08/2020	CEN/TC 51
<b>FprCEN/TR 17086</b>	Approved	25/08/2020	CEN/TC 104

Reference	Result	Closed on	Committee
<b>prEN 197-5</b>	Approved	25/08/2020	CEN/TC 51
<b>Adoption of a NWI for the revision of CEN/TR 17172</b>	Approved	26/08/2020	CEN/TC 104
<b>Appointment of Convenor to CEN/TC 104/WG 15</b>	Approved	26/09/2020	CEN/TC 104
<b>prEN 12390-1 - Adoption for Formal Vote</b>	Approved	06/10/2020	CEN/TC 104
<b>prEN 12390-13 - Adoption for Formal Vote</b>	Approved	06/10/2020	CEN/TC 104
<b>prEN 12504-2 - Adoption for Formal Vote</b>	Approved	06/10/2020	CEN/TC 104
<b>prEN 12504-4 - Adoption for Formal Vote</b>	Approved	06/10/2020	CEN/TC 104
<b>Adoption of a PWI on UHPFRC - Part 1</b>	Approved	23/10/2020	CEN/TC 104
<b>Activation of a PWI for a new European Standard EN 12390-xz</b>	Approved	26/10/2020	CEN/TC 104
<b>Activation of a PWI for the revision of EN 1504-3</b>	Approved	26/10/2020	CEN/TC 104
<b>Adoption of a NWI for revision of CEN/TR 17172 - 2nd ballot</b>	Approved	31/10/2020	CEN/TC 104
<b>Decision 04-2020 - Liaison of CEN/TC 51 with CEN/TC 442</b>	Approved	12/11/2020	CEN/TC 51
<b>EN 1008:2002</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 12350-10:2010</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 12350-11:2010</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 12350-12:2010</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 12350-9:2010</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 12390-6:2009</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 12504-3:2005</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 13263-1:2005+A1:2009</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 13263-2:2005+A1:2009</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 13670:2009</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 480-11:2005</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 480-12:2005</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 480-13:2015</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 480-4:2005</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 480-5:2005</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 480-6:2005</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 524-1:1997</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 524-2:1997</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 524-3:1997</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 524-4:1997</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 524-5:1997</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 524-6:1997</b>	Confirmed	23/11/2020	CEN/TC 104
<b>EN 772-13:2000</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 772-14:2001</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 772-15:2000</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 772-20:2000</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 772-6:2001</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 846-11:2000</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 846-13:2001</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 846-3:2000</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 846-4:2001</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 846-8:2000</b>	Confirmed	23/11/2020	CEN/TC 125
<b>EN 206:2013+A1:2016/FprA2</b>	Approved	24/11/2020	CEN/TC 104
<b>Appointment of Convenor of CEN/TC 104/WG 18</b>	Approved	25/11/2020	CEN/TC 104
<b>FprEN 197-5 - Cement - Part 5: Portland-composite cement CEM II/C-M and Composite cement CEM VI</b>	Approved	29/12/2020	CEN/TC 51

## 6 Irish Publications/Reviews

### 6.1 Publications

There were no national documents published by the CSCC in 2020.

### 6.2 Reviews

There were no reviews carried out by the CSCC or its sub-committees in 2020.

## 7 Work programme for 2021 onwards

The review of S.R. 325 - *Recommendations for the design of masonry structures in Ireland to Eurocode 6* will continue in 2021 and it is expected that work will formally start on a full revision of S.R. 325 in 2021.

As progress is made on the revision to EN 206, the Concrete Panel (NSAI/TC 003/SC 1) will continue to closely monitor the work and developments associated with this document in conjunction with NSAI/TC 15/SC 2 especially due to the changes in performance rules from the DtS rules to the ERC approach.

CSCC members will also need to review the enquiry draft of prEN 1992-1-1 when it is launched in September 2021 as the new version of EN 1992-1-1 it will impact upon the design of concrete structures in Ireland for the next decade.

Significant resources will be required by the CSCC and the NSAI secretariat in 2021 and beyond with the revision of the NA to EN 206 and S.R. 325 and the NA to EN 1996-1-1, particularly in respect to member's time and commitment as well as the need for any associated research and calibration studies which may be required.

Finally, CSCC members will need to keep abreast of the changes being proposed as part of the EC's review of the Construction Products Regulation (CPR – Regulation No. 305/2011) and the CPR Acquis process launched in Q4 of 2020 as these will have a significant impact on harmonised standards, CE marking and the single market over the coming years.